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CALFED Role and Policy With Respect to San Joaquin River Water Quality Problems December 31, 1996

The scope of the CALFED Water Quality Program includes water quality problems in the San Joaquin River and its tributaries which directly affect, or have the capacity to directly affect, the quality of Sacramento- San Joaquin Bay-Delta Estuary waters. Water quality parameters of concern in the San Joaquin River, and Delta Estuary are shown in Table 1, attached.

(as defined by the worth) Sources of water quality problems in the San Joaquin River and its tributaries include:

- av return flaws, agricultural tail water which may contribute salts, nutrients, pesticide residues, pathogens, and turbidity;
- subsurface agricultural drainage that may contribute salts, nutrients, and selenium:
- contribute storm inflows that may bring in turbidity, pathogens, organic carbon, nutrients, pesticide, X and other-chemical residues.
- municipal and industrial discharges that may contribute salts, metals, pathogens, and chemical residues;
- Acid drainage from old mines which introduce metals such as zinc, cadmium, copper, and chromium.; and

soil erosion of natural and human origin that can add turbidity. covered elsewhere

significant and return flows. of our flow the drawings and return flows. Probably the most important source of water quality degradation in the San Joaquin River system is agricultural drainage which can, during lew flow periods, comprise the majority of San Joaquin River flow. Water quality experts familiar with the problems of the San Joaquin River watershed generally agree that any long-term solution to these problems must include some mechanism for removing salts from the system. Otherwise, management of the quality of San Joaquin River (waters must primarily rely on distributing salt loads in the river system. Other femporary solutions include impounding salt laden drainage waters and similar measures that

have the effect of temporarily reducing discharges to the San Joaquin River, but not affecting long term salt balance in the Valley.

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CALFED recognizes that the San Joaquin River has a pronounced effect on the quality of the waters of the Sacramento-San Joaquin Delta Estuary; and It is also recognized that, ultimately, a complete solution to the problems of San Joaquin River water quality will require mechanisms to permanently reduce the load of salts coming into the river from agricultural activities. At the same time, it is also recognized that the water quality problems of the San Joaquin River have

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been under study for many years, and that the San Joaquin Valley Drainage Improvement Program (SJVDIP) is a multi-agency federal/state/local entity that was established for the purpose of solving salt and related toxic element management problems of the San Joaquin River system. CALFED will rely on the SJVDIP to provide the overall direction for long term solutions of these problems.

It is the intent of CALFED to act fin full coordination with the SJVDIP, to facilitate activities directed to attacking water quality problems from the sources listed above, from an overall watershed approach. In determining its priorities for action, CALFED will make a determinationthat proposed activities are consistent with CALFED Solution Principles relating to fairness, solution durability, and equity. In addition, the following will be considered:

- The degree to which the proposed activity will beneficially affect the quality of Sacramento-San Joaquin Delta Estuary waters in comparison to the cost of implementing the solution:
- whether proposed activities related to water quality are consistent with CALFED objectives related to ecological, water supply, supply reliability, and conveyance and storage issues;
- consistency with the San Joaquin Valley Drainage Improvement Program;
- the extent to which the problem and proposed solutions have been investigated, and technically documented, and the demonstrated probability that the proposed solution will west bullet? be successful;
- whether there are prospective local/state/federal participants or partnerships for problem resolution, and whether a suitable management infrastructure exists;

To formulate detailed policies, plans and actions, CALFED staff will work with San Joaquin Comment Valley stakeholders, especially the staff of the San Joaquin Valley Drainage Improvement Program, and will undertake an active program of outreach to assure the interests of all stakeholders are represented. .

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TABLE 1

CALFED Bay-Delta Water Quality Parameters of Concern

Cadmium

Dissolved Oxygen

· Copper

Salinity (TDS, EC)

Mercury

Temperature

Selenium

Turbidity

Zinc

Unknown Toxicity

Carbofuran

Bromide

Chlordane

Nutrients (Nitrate)

Chlorpyrifos

Pathogens

DDT

TOC

Diazinon

Viruses

PCBs

Boron'

Toxaphene

Chloride

Ammonia

pH (Alkalinity)

Temperature

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